



WHAT IS A NPTEL?

NPTEL is an acronym for National Programme on Technology Enhanced Learning which is an initiative by seven Indian Institutes of Technology (IIT Bombay, Delhi, Guwahati, Kanpur, Kharagpur, Madras and Roorkee) and Indian Institute of Science (IISc) for creating course contents in engineering and science. NPTEL as a project originated from many deliberations between IITs, Indian Institutes of Management (IIMs) and Carnegie Mellon University (CMU) during the years 1999-2003. A proposal was jointly put forward by five IITs (Bombay, Delhi, Kanpur, Kharagpur and Madras) and IISc for creating contents for 100 courses as web based supplements and 100 complete video courses, for forty hours of duration per course. Web supplements were expected to cover materials that could be delivered in approximately forty hours. Five engineering branches (Civil, Computer Science, Electrical, Electronics and Communication and Mechanical) and core science programmes that all engineering students are required to take in their undergraduate engineering programme in India were chosen initially. Contents for the above courses were based on the model curriculum suggested by All India Council for Technical Education (AICTE) and the syllabi of major affiliating Universities in India.

HOW TO USE

NPTEL videos are very helpful for students who genuinely wish to understand the topics under the B.Tech subjects taught at IITs. It is also a quick way to prepare just before the exam date. They are easy to understand, good in quality and to the point. It saves a lot of crucial time.

Click Here:- <http://nptel.ac.in/>

DETAILS OF NPTEL COURSES

Aerospace Engineering	Chemical Engineering	Environmental Science	Mining Engineering
Agriculture	Chemistry and Biochemistry	General	Nanotechnology
Architecture	Civil Engineering	Humanities and Social Sciences	Ocean Engineering
Atmospheric Science	Computer Science and Engineering	Management	Physics
Automobile Engineering	Electrical Engineering	Mathematics	Textile Engineering
Basic courses(Sem 1 and 2)	Electronics & Communication Engineering	Mechanical Engineering	
Biotechnology	Engineering Design	Metallurgy and Material Science	



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**On Line Courses Repository of NPTEL
Computer Science and Engineering (CSE)**

Following are the links to online courses available through (MOOC Coursera). This list is prepared by Mr.Vikram Singh Rathore from IIIT Kota, Central Library for self-learning of B.Tech students of Computer Science and Engineering (CSE), The Online courses Repository is covered with no of 3421 (**Three Thousand Four Hundred Twenty-One**) Lecture/Topic in no of 90 (**Ninty**) courses of CSE.

Computer Science and Engineering (CSE)

S.No	COURCES	WEB LINK FOR ACCESS
1.	<i>Artificial Intelligence</i> Prof. S. Sarkar Prof. Anupam Basu ,IIT Kharagpur	http://nptel.ac.in/courses/106105077/
2.	<i>Artificial Intelligence</i> Prof. Deepak Khemani, IIT Madras	http://nptel.ac.in/courses/106106126/
3.	<i>Artificial Intelligence</i> Prof. P. Mitra & Prof. S. Sarkar ,IIT Kharagpur	http://nptel.ac.in/courses/106105078/
4.	<i>CAD for VLSI Design II</i> Prof. Shankar Balachandran Prof. V. Kamakoti ,IIT Madras	http://nptel.ac.in/courses/106106089/
5.	<i>Artificial Intelligence</i> Prof. P. Dasgupta ,IIT Kharagpur	http://nptel.ac.in/courses/106105079/
6.	<i>Biometrics</i> Prof. Phalguni Gupta ,IIT Kanpur	http://nptel.ac.in/courses/106104119/
7.	<i>CAD for VLSI Design I</i> Prof. Shankar Balachandran Prof. V. Kamakoti ,IIT Madras	http://nptel.ac.in/courses/106106088/
8.	<i>Combinatorics</i> Dr. L. Sunil Chandran ,IISc Bangalore	http://nptel.ac.in/courses/106108051/
9.	<i>Compiler Design</i> Prof. Y.N. Srikanth ,IISc Bangalore	http://nptel.ac.in/courses/106108052/
10.	<i>Compiler Design</i> Prof. Sanjeev K Aggarwal ,IIT Kanpur	http://nptel.ac.in/courses/106104072/
11.	<i>Compiler Design</i> Prof. Sanjeev K Aggarwal ,IIT Kanpur	http://nptel.ac.in/courses/106104123/
12.	<i>Computational Geometry</i> Prof. Sandeep Sen ,IIT Delhi	http://nptel.ac.in/courses/106102011/
13.	<i>Computational Number Theory & Cryptography</i> Dr. Pinaki Mitra ,IIT Guwahati	http://nptel.ac.in/courses/106103015/
14.	<i>Computer Graphics</i> Prof. Prem K Kalra ,IIT Delhi	http://nptel.ac.in/courses/106102063/
15.	<i>Computer Algorithms – 2</i> Prof. Shashank K. Mehta ,IIT Kanpur	http://nptel.ac.in/courses/106104019/

16.	<u>Computer Architecture</u> Prof. Anshul Kumar ,IIT Delhi	http://nptel.ac.in/courses/106102062/
17.	<u>Computer Graphics</u> Prof. Sukhendu Das ,IIT Madras	http://nptel.ac.in/courses/106106090/
18.	<u>Computer Architecture</u> Dr. Mainak Chaudhuri ,IIT Kanpur	http://nptel.ac.in/courses/106104122/
19.	<u>Computer Networks</u> Prof. Sujoy Ghosh ,IIT Kharagpur	http://nptel.ac.in/courses/106105081/
20.	<u>Computer Networks</u> Prof. Ajit Pal ,IIT Kharagpur	http://nptel.ac.in/courses/106105080/
21.	<u>Computer Networks</u> Prof. Hema A Murthy ,IIT Madras	http://nptel.ac.in/courses/106106091/
22.	<u>Computer Organisation and Architecture</u> Prof. Bhaskaran Raman ,IIT Kanpur	http://nptel.ac.in/courses/106104073/
23.	<u>Computer Organization</u> Prof. S. Raman ,IIT Madras	http://nptel.ac.in/courses/106106092/
24.	<u>Cryptography and Network Security</u> Dr. Debdeep Mukhopadhyay ,IIT Kharagpur	http://nptel.ac.in/courses/106105031/
25.	<u>Data Communication</u> Prof. Ajit Pal ,IIT Kharagpur	http://nptel.ac.in/courses/106105082/
26.	<u>Data Communications</u> Prof. H.S. Jamadagni ,IISc Bangalor	http://nptel.ac.in/courses/106108098/
27.	<u>Data Structures And Algorithms</u> Prof. Naveen Garg ,IIT Delhi	http://nptel.ac.in/courses/106102064/
28.	<u>Data Structures and Program Methodology</u> Dr. S.V. Rao Dr. Pradip K Das ,IIT Guwahati	http://nptel.ac.in/courses/106103069/
29.	<u>Computer Organization and Architecture</u> Prof. Jatindra Kumar Deka ,IIT Guwahati	http://nptel.ac.in/courses/106103068/
30.	<u>Digital Systems</u> Prof. N.J. Rao ,IISc Bangalore	http://nptel.ac.in/courses/106108099/
31.	<u>Discrete Mathematical Structures</u> Prof. Kamala Krithivasan ,IIT Madras	http://nptel.ac.in/courses/106106094/
32.	<u>Distributed Computing Systems</u> Prof. Ananthanarayana V.S ,IIT Madras	http://nptel.ac.in/courses/106106107/
33.	<u>Electronic Design Automation</u> Prof. Indranil Sengupta ,IIT Kharagpur	http://nptel.ac.in/courses/106105083/
34.	<u>Fundamental Algorithms:Design and Analysis</u> Prof.Sourav Mukhopadhyay ,IIT Kharagpur	http://nptel.ac.in/courses/106105157/
35.	<u>Introduction to Computer Graphics</u> Prof. Prem K Kalra ,IIT Delhi	http://nptel.ac.in/courses/106102065/
36.	<u>Logic for CS</u> Prof. S. Arun Kumar ,IIT Delhi	http://nptel.ac.in/courses/106102013/
37.	<u>Low Power VLSI Circuits & Systems</u> Prof. Ajit Pal ,IIT Kharagpur	http://nptel.ac.in/courses/106105034/
38.	<u>Microprocessors and Microcontrollers</u> Prof. Krishna Kumar ,IISc Bangalore	http://nptel.ac.in/courses/106108100/
39.	<u>Introduction to Database Systems and Design</u> Prof. P.Sreenivasa Kumar ,IIT Madras	http://nptel.ac.in/courses/106106095/

40.	<u>Introduction to Problem Solving and Programming</u> Prof. D. Gupta ,IIT Kanpur	http://nptel.ac.in/courses/106104074/
41.	<u>Introduction to Problem Solving and Programming</u> Prof. S. Arun Kumar ,IIT Delhi	http://nptel.ac.in/courses/106102066/
42.	<u>Natural Language Processing</u> Prof. Pushpak Bhattacharyya ,IIT Bombay	http://nptel.ac.in/courses/106101007/
43.	<u>NOC:Design and Analysis of Algorithms</u> Prof. Madhavan Mukund ,IIT Madras	http://nptel.ac.in/courses/106106131/
44.	<u>NOC:Functional Programming in Haskell</u> Prof. Madhavan Mukund Prof. S P Suresh ,IIT Madras	http://nptel.ac.in/courses/106106137/
45.	<u>NOC:Fundamentals of Database Systems(Course sponsored by Aricent)</u> Dr. Arnab Bhattacharya ,IIT Kanpur	http://nptel.ac.in/courses/106104135/
46.	<u>NOC:Information Security - II(Course sponsored by Aricent)</u> Prof. V. Kamakoti ,IIT Madras	http://nptel.ac.in/courses/106106141/
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